

Kalzip® vapour layer FR

Product information

The product

The Kalzip vapour layer FR is a self-adhesive vapour barrier with a low fire load made of tear-proof, fabric-reinforced laminated aluminium foil in accordance with the requirements of EN 13984.

Product structure

Upper layer: fabric-reinforced laminated aluminium foil
Lower layer: Self-adhesive coating with film cover

Product advantages

- CE certification according to EN 13984
- Meets the requirements of DIN 18234 “Fire safety of large roofs for buildings”
- Very high vapour tightness
- Quick and easy installation
- Low mass per unit area
- Low fire load
- Joints can be corrected
- Suitable as temporary waterproofing for roofs with gradients of more than 2°
- Very high tear resistance, therefore good walkability and workability
- Large coverage (75 m²/roll)

Area of application

The Kalzip vapour layer FR is used for roofs with waterproofing according to DIN 18531, preferably on substructures made of trapezoidal steel liners.

Application notes

The adhesive surfaces must be dry and free from dust, grease and oil. The minimum processing temperature is +5 °C. On plastic-coated trapezoidal steel liners no primer is required. On other surfaces such as galvanised sheet steel etc. a bituminous primer should be applied.



The Kalzip vapour layer FR should be applied parallel to the upper chords by peeling off the protective film on the underside. The longitudinal seams must be glued on the upper chords. Longitudinal and transverse seams must be sealed with a minimum overlap 8 cm by pressing or rolling. At all connections, terminations and penetrations the vapour barrier must be brought up to the upper level of the thermal insulation and sealed air- and vapour-tight.

In the sealed original packaging the vapour layer can be stored for approx. 12 months in dry, well ventilated rooms that are protected from light and kept at a constant temperature of 20 °C. On site suitable measures should be taken to protect opened pallets and rolls from moisture and rain. The rolls should be stored vertically.

Technical data

Packaging unit	
Roll width	1.50 m
Roll length	50 m
Weight	approx. 19.5 kg per roll
Pallet unit	24 rolls per pallet

Property according to DIN EN 13970	Test procedure	Product performance
Watertightness	EN 1928	passed
Water vapour permeability	EN 1931	S_d value ≥ 1.500 m
Behaviour in case of fire	EN 13501-1	Class E/B1 according to DIN 4102-1
Resistance to shock loads	EN 12691	Technique A: ≥ 150 mm
Tear resistance	EN 12310-1	longitudinal: ≥ 60 N transversal: ≥ 70 N
Joint shear resistance (bond seam)	EN 12317-2	≥ 400 N/50 mm
Tensile strength	EN 12311-2	Maximum tensile strength longitudinal: > 230 N/50 mm transversal > 500 N/50 mm Elongation at maximum tensile strength longitudinal: > 15 % transversal: > 20 %
Durability after artificial ageing	EN 1296 EN 1931	passed
Thickness	EN 1849-2	0.35 mm
Weight	EN 1849-2	approx. 260 g/m ²
Straightness	EN 1849-2	passed
Calorific value		$< 10,500$ kJ/m ²

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